



Review after Test 1

Name _____ Date _____ Period _____

Simplify. NO CALCULATORS!!!

1. $-\frac{5}{6} \cdot \frac{3}{4}$

2. $\left(-\frac{3}{10}\right)\left(3\frac{3}{5}\right)$

3. $-\frac{5}{16} \div \frac{15}{4}$

4. $-3\frac{3}{4} \div 2$

5. $\frac{7}{6} + \frac{3}{4}$

6. $-4\frac{1}{4} - \frac{3}{2}$

7. $3x^2 \cdot 5x^6$

8. $-x^5 \cdot 9x^{-3}$

9. $\frac{8x^2}{16x^3}$

10. $\frac{8x^2}{2x^5}$

11. $(x^4)^3$

12. $(5x^6)^2$

13. $\frac{5xy^3}{5x^5y^5}$

14. $\left(\frac{2x^8y^4z^9}{4x^5y^4}\right)^2$

15. x^{-2}

16. $7x^{-5}$

17. 3^4

18. 3^{-4}

Factor completely.

19. $x^2 - 16$

20. $x^2 - 6x + 5$

21. $x^3 - 64$

22. $25x^2 - 81$

23. $10x^2 + 31x + 21$

24. $x^2 - 7x + 18$

25. $8x^3 + 125$

26. $5x^2 - 39x - 8$

27. $4x^2 - 40x$

28. $64x^2 - 81y^2$

29. $-8x^2 + 8x + 70$

30. $2x^2 - 50$